LOUISIANA DEPARTMENT OF HEALTH
Public Health

Louisiana Healthy Homes and Childhood Lead Poisoning Prevention Program Surveillance System Report, 2015

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Executive Summary

The surveillance component of the Louisiana Healthy Homes and Childhood Lead Poisoning Prevention Program (LHHCLPPP), the Healthy Homes and Lead Poisoning Surveillance System (HHLPSS), collects information about blood lead tests conducted on children between the ages of 6 and 72 months who reside in Louisiana. HHLPSS provides blood lead test results to other state agencies including Environmental Epidemiology, WIC, Head Start Centers and local health departments as needed, and upon request to third parties for research and planning.

Since 2000, the LHHCLPPP has released a comprehensive annual report on statewide childhood blood lead testing which includes a detailed breakdown of blood lead data by age, jurisdiction, blood lead level, and the trend of blood lead levels over time. The current report presents the childhood blood lead test results for calendar year (CY) 2015. All numbers are based on blood lead testing (venous or capillary) on children 6-72 months of age.

CY 2015 Surveillance Highlights:

- During CY 2015, a total of 69,519 children were tested among 378,985 children 6-72 months of age. This represents 18.4% of children under 6 tested as identified in the 2015 American community survey, 5-year estimate for Louisiana population. This was an increase of 6,675 children tested compared to 62,844 (18.3%) during CY 2014. This represents a 1% increase in testing from CY 14 to CY 15.
- During CY 2015, 42% of 1-year-olds (n=64,353) and 29% of 2-year-olds (n=63,632) were tested for lead poisoning.
- During CY 2015, of the 69,519 children tested for blood lead statewide, 923 (1.3%) were found to have initial blood lead level (BLL) ≥10µg/dL. During CY 2015, 2,582 children had an initial blood lead level of 5-9.9µg/dL.
- While there has been an increase in the number of children tested in 2015 compared to 2014, there has been a decrease in the number of children found with elevated blood lead levels (Figure 1).
- Winn Parish had the highest testing rate (35.8%), followed by Avoyelles Parish (35.1%), Natchitoches Parish (33.5%), Madison Parish (33.2%), and Concordia Parish (33.1%).
- Caldwell Parish had the highest cumulative testing rate for children at 1 year and 2 years of age at 58.9% (Table 3).
- Eighty-seven percent (87%) of the addresses were geo-coded at the longitude, latitude level. The parish assignment is based on: 1) County-FIPS as determined by geocoding, 2) Child's zip code address and 3) the original parish name if it was included in the address information.
- In 2015 HHLPSS received blood lead reports from 78 establishments (laboratories, clinics, medical offices and hospital labs). About 89% of reports received electronically were from 69 establishments and the remaining 11% were received in hard copy through fax or mail from the other nine establishments. The average reporting time, from the time the sample was drawn to the time the results were entered into the HHLPSS database was about 14 days. The average time for reporting elevated BLL ≥10µg/dL was approximately 48 hours.
- Louisiana Administrative Code 48:V§ 7005 requires blood lead testing for all children ages 6-72 months who spend more than 10 hours a week in Louisiana.

Overview

Exposure to lead is still the most significant and widespread environmental hazard for children in Louisiana, although substantial reduction in lead exposure and lead poisoning has been achieved. While the rate of children with elevated BLLs in Louisiana has decreased dramatically over the years, LHHCLPPP continues to capture cases of elevated BLLs annually.

The Centers for Disease Control and Prevention (CDC) has concluded that even low blood lead levels can cause lifelong health effects. As of January 2012, CDC uses a reference level of 5µg/dL to identify children who have been exposed to lead and who require case management.

Statistical Report

In CY 2015, a total of 69,519 children 6-72 months of age were tested for lead exposure statewide. Table 1 provides a summary for statewide statistics of blood lead screening in 2015.

Findings

The overall proportion of children with BLL ≥5µg/dL declined in 2015 (Figure 1). Additionally, the proportion of children with BLL ≥10µg/dL also decreased from 1.8% in 2014 to 1.3% in 2015. This represents a 24% decrease in lead poisoning (Table 2 and Figure 2).

The decline in lead exposure is demonstrated by the decline in the percent of children with elevated blood lead levels (Figure 1).

Appendix A provides a breakdown of blood lead testing and the status of children by age groups of under 2 years and 3 years and older by high-risk parishes in 2015. For detailed breakdowns of blood lead data, the reader is referred to the supplementary data tables.

Table 1: Calendar Year (CY) 2015 –Number and Percent of Children Tested aged 6-72 months N=378,985

Item	Number of tests	Percent (%) of total population
Number of tests	69,519	18.3
Age		
Under 1 Year	1416	2
1 Year	27032	39.1
2 Years	18338	26.5
3 Years	7368	10.6
4 Years	7282	10.5
5 Years	2686	3.9
6 Years	5397	7.3
Gender		
Female	34039	49
Male	35146	50.6
Unknown	334	0.4
Blood Lead Level (µg/dL)		
<5	66014	95
5-9.9	2582	3.7
10-14.9	576	0.8
15-19.9	222	0.3
≥20	125	0.2
Mean BLL	1.66	
Blood Specimens		
Capillary	50198	72.2
Venous	6466	9.3
Unknown	12855	18.5

Table 2: Summary of the Numbers of Children with Elevated Blood Lead levels by Parish 2015 Data

Parish	Population of Children[1] 6 and under	2015 Data									
		Total Tested (n)	% tested	5-9.9	10-14.9	15-19.9	≥ 20	≥10	≥5 µg /dL	% ≥5 µg /dL	% ≥10 µg /dL
				µg /dL							
Acadia	5883	527	9.0	18	5	0	6	11	29	5.5	2.1
Allen	1593	375	23.5	12	1	0	0	1	13	3.5	0.3
Ascension	10383	1057	10.2	7	2	1	1	4	11	1.0	0.4
Assumption	1302	253	19.4	9	1	0	0	1	10	4.0	0.4
Avoyelles	3237	1136	35.1	35	6	3	1	10	45	4.0	0.9
Beauregard	2941	381	13.0	13	1	4	5	10	23	6.0	2.6
Bienville	1216	93	7.6	4	0	0	0	0	4	4.3	0.0
Bossier	10769	1274	11.8	33	4	2	3	9	42	3.3	0.7
Caddo	21699	2998	13.8	152	48	23	17	88	240	8.0	2.9
Calcasieu	15953	2229	14.0	91	20	5	3	28	119	5.3	1.3
Caldwell	631	207	32.8	13	1	0	0	1	14	6.8	0.5
Cameron	420	54	12.9	3	0	0	0	0	3	5.6	0.0
Catahoula	719	185	25.7	6	3	2	0	5	11	5.9	2.7
Claiborne	1024	193	18.8	19	3	2	1	6	25	13.0	3.1
Concordia	1709	568	33.2	17	2	0	0	2	19	3.3	0.4
De Soto	2463	342	13.9	15	4	2	2	8	23	6.7	2.3
East Baton Rouge	34901	4247	12.2	190	36	18	12	66	256	6.0	1.6
East Carroll	728	77	10.6	3	2	0	0	2	5	6.5	2.6
East Feliciana	1464	323	22.1	3	2	0	0	2	5	1.5	0.6
Evangeline	2868	423	14.7	18	1	0	0	1	19	4.5	0.2
Franklin	2029	662	32.6	32	4	0	0	0	32	4.8	0.0
Grant	1774	303	17.1	9	0	0	0	0	9	3.0	0.0
Iberia	6583	414	6.3	11	1	3	2	6	17	4.1	1.4
Iberville	2594	300	11.6	5	5	3	1	9	14	4.7	3.0
Jackson	1208	275	22.8	7	2	1	0	3	10	3.6	1.1
Jefferson Davis	2729	480	17.6	26	9	4	2	15	41	8.5	3.1
Jefferson	33938	6020	17.7	161	35	13	9	57	218	3.6	0.9
La Salle	1204	303	25.2	12	3	0	0	3	15	5.0	1.0
Lafayette	19369	1233	6.4	20	6	0	2	8	28	2.3	0.6
Lafourche	7549	1817	24.1	32	22	9	6	37	69	3.8	2.0
Lincoln	3283	1060	32.3	15	3	1	1	5	20	1.9	0.5
Livingston	11551	1205	10.4	45	20	6	3	29	74	6.1	2.4

Madison	1217	404	33.2	14	3	0	0	3	17	4.2	0.7

(Contd.)

Parish	Population of Children[1] 6 and under	2015 Data									
		Total Tested (n)	Total tested (%)	5-9.9	10-14.9	15-19.9	≥ 20	≥10	≥5 µg /dl	% ≥5 µg /dl	% ≥10 µg /dl
				µg /dL							
Morehouse	2548	572	22.4	23	4	1	0	5	28	4.9	0.9
Natchitoches	3158	1059	33.5	15	10	7	3	20	35	3.3	1.9
Orleans	27376	6963	25.4	602	129	39	7	175	777	11.2	2.5
Ouachita	13451	2903	21.6	139	26	13	5	44	183	6.3	1.5
Plaquemines	2416	219	9.1	2	1	1	0	2	4	1.8	0.9
Pointe Coupee	1880	393	20.9	10	5	2	1	8	18	4.6	2.0
Rapides	10901	2697	24.7	59	12	5	5	22	81	3.0	0.8
Red River	842	122	14.5	5	0	0	0	0	5	4.1	0.0
Richland	2057	555	27.0	6	4	2	1	7	13	2.3	1.3
Sabine	2265	466	20.6	20	3	0	0	3	23	4.9	0.6
St. Bernard	4047	941	23.3	17	2	0	0	2	19	2.0	0.2
St. Charles	4312	708	16.4	12	5	0	0	5	17	2.4	0.7
St. Helena	853	188	22.0	9	0	0	0	0	9	4.8	0.0
St. James	1859	487	26.2	11	1	1	1	3	14	2.9	0.6
St. John the Baptist	3634	918	25.3	14	7	0	0	7	21	2.3	0.8
St. Landry	8023	753	9.4	25	5	1	1	7	32	4.2	0.9
St. Martin	4484	263	5.9	1	0	0	0	0	1	0.4	0.0
St. Mary	4462	536	12.0	27	7	0	1	8	35	6.5	1.5
St. Tammany	17711	2531	14.3	39	9	5	3	17	56	2.2	0.7
Tangipahoa	10547	1203	11.4	121	12	6	3	21	142	11.8	1.7
Tensas	485	197	40.6	6	3	0	0	3	9	4.6	1.5
Terrebonne	9458	1063	11.2	31	11	3	0	14	45	4.2	1.3
Union	1914	517	27.0	14	4	3	0	7	21	4.1	1.4
Vermilion	5151	711	13.8	6	1	1	0	2	8	1.1	0.3
Vernon	5732	421	7.3	7	0	0	1	1	8	1.9	0.2
Washington	3929	644	16.4	23	5	2	2	9	32	5.0	1.4
Webster	3178	364	11.5	12	7	0	0	7	19	5.2	1.9
West Baton Rouge	2378	168	7.1	3	1	0	0	1	4	2.4	0.6
West Carroll	955	195	20.4	3	0	0	0	0	3	1.5	0.0
West Feliciana	946	165	17.4	7	2	1	0	3	10	6.1	1.8
Winn	1102	395	35.8	29	5	1	0	6	35	8.9	1.5

[1]: U.S Census Bureau, 2014 American Community Survey, 5 year estimates

Figure 1
Blood Lead Distribution of Children 6-72 Months Tested for Lead in 2014 and 2015

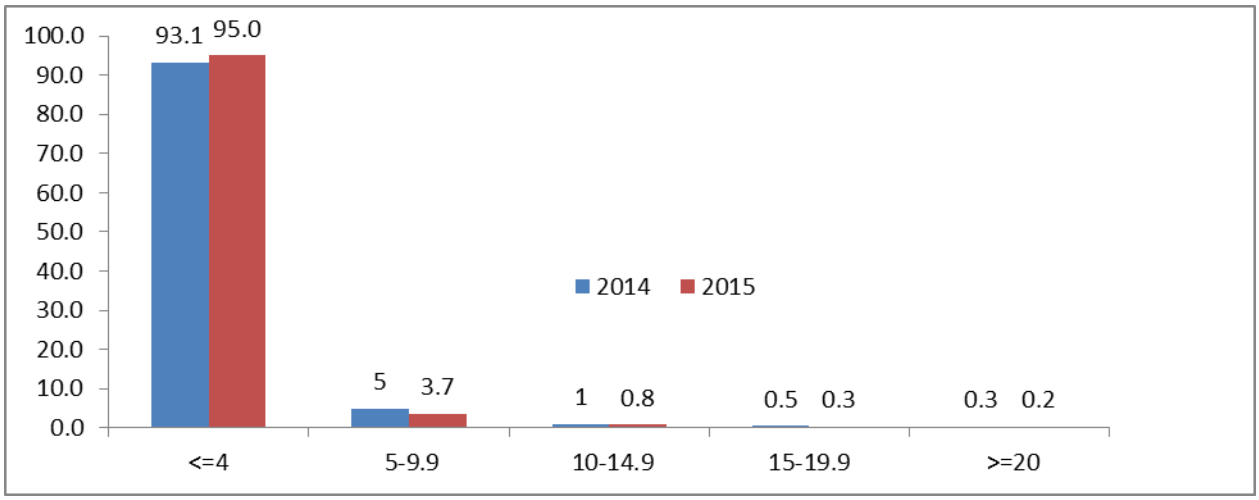


Figure 2
Number of Children 6-72 Months tested for Lead and Number Reported to have BLL ≥10 µg /dL: 2000-2015

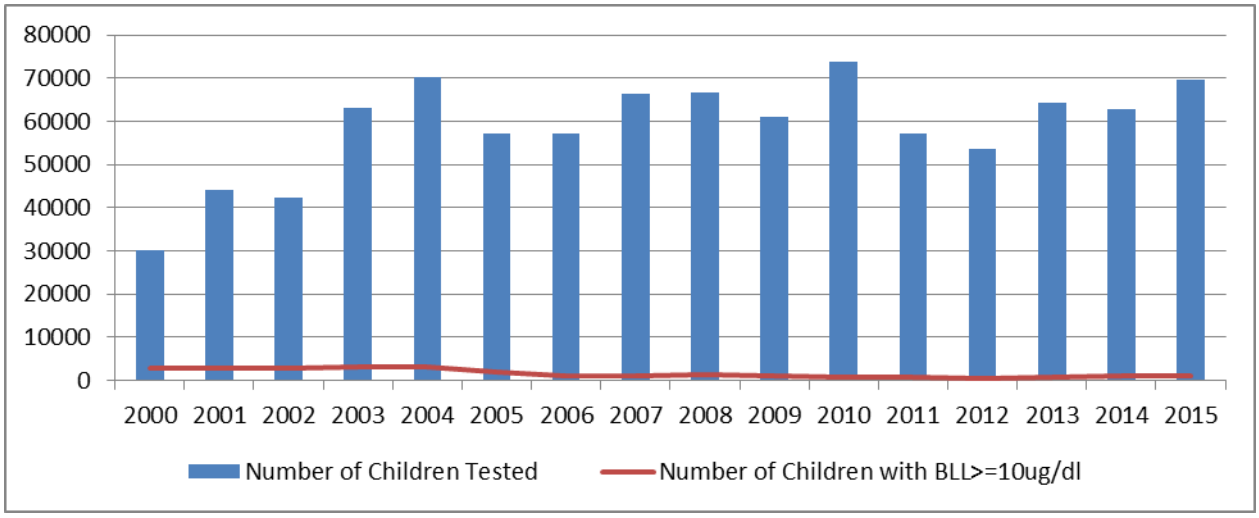
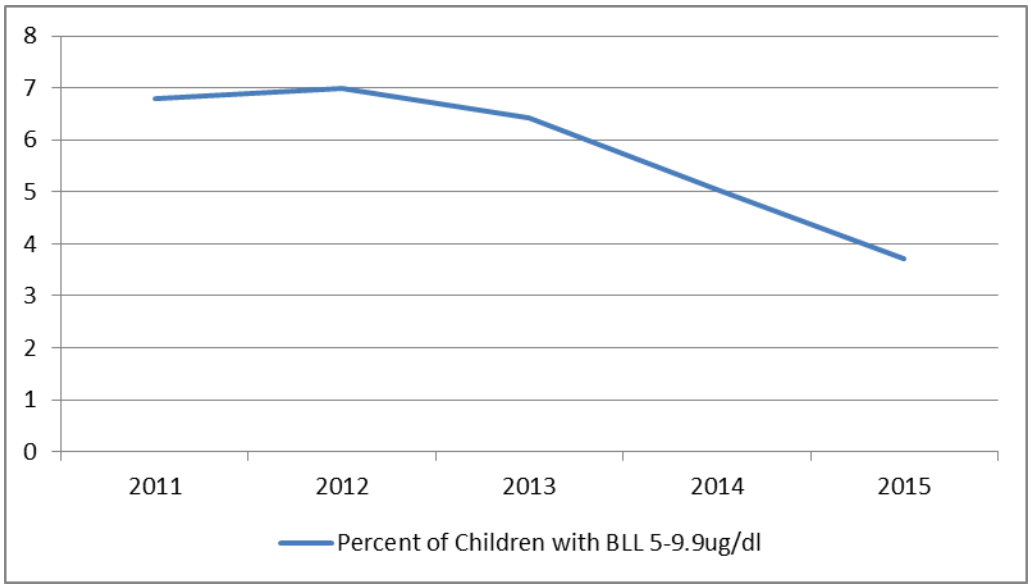


Figure 3
Percent of Children 6-72 Months Tested for Lead with BLL 5-9.9 µg /dL: 2012-2015



Statewide Activities to Eliminate Childhood Lead Poisoning

1. Universal Screening: A primary goal of LHHCLPPP is to identify children who may be at risk of lead exposure, so that preventive actions can be implemented. Because of their hand-mouth behavior, children ages 1 and 2 are most likely to be exposed to lead. To that end, the State of Louisiana called for universal screening to require blood lead testing for all children 6-72 months old, especially children at ages 1 and 2. 29.8% children ages 1 and 2 were tested for lead in 2014, with rate as high as 58.9% for Caldwell parish and 53.8% for Catahoula parish (Table 3).

Table 3: Blood Lead Testing of Children 1 and 2 Years Old by Parish in 2015

Parish	1 Year Old			2 Years Old			Total		
	Children	Children tested		Children	Children Tested		Children	Children Tested	
	Population	Number	Percent (%)	Population	Number	Percent (%)	Population	Number	Percent (%)
Acadia	1167	261	22.4	1185	133	11.2	2352	394	16.8
Allen	298	158	53.0	335	115	34.3	633	273	43.1
Ascension	2046	544	26.6	2107	167	7.9	4153	711	17.1
Assumption	238	122	51.3	273	77	28.2	511	199	38.9
Avoyelles	629	392	62.3	666	266	39.9	1295	658	50.8
Beauregard	567	180	31.7	609	87	14.3	1176	267	22.7
Bienville	251	35	13.9	236	19	8.1	487	54	11.1
Bossier	2103	462	22.0	2211	319	14.4	4314	781	18.1
Caddo	4298	943	21.9	4380	782	17.9	8678	1725	19.9

Calcasieu	3156	1200	38.0	3231	499	15.4	6387	1699	26.6
Caldwell	122	98	80.3	131	51	38.9	253	149	58.9
Cameron	79	27	34.2	88	11	12.5	167	38	22.8
Catahoula	139	100	71.9	151	56	37.1	290	156	53.8
Claiborne	199	80	40.2	208	76	36.5	407	156	38.3
Concordia	331	201	60.7	352	122	34.7	683	323	47.3
De Soto	472	129	27.3	513	110	21.4	985	239	24.3
East Baton Rouge	6949	2028	29.2	7012	1586	22.6	13961	3614	25.9
East Carroll	139	35	25.2	152	21	13.8	291	56	19.2
East Feliciana	301	105	34.9	285	105	36.8	586	210	35.8
Evangeline	563	183	32.5	574	132	23.0	1137	315	27.7
Franklin	398	111	27.9	413	109	26.4	811	220	27.1
Grant	349	62	17.8	362	51	14.1	711	113	15.9
Iberia	1301	100	7.7	1332	76	5.7	2633	176	6.7
Iberville	511	66	12.9	528	27	5.1	1039	93	9.0
Jackson	229	157	68.6	254	98	38.6	483	255	52.8
Jefferson Davis	536	222	41.4	555	119	21.4	1091	341	31.3
Jefferson	6708	3065	45.7	6868	1676	24.4	13576	4741	34.9
La Salle	230	156	67.8	251	94	37.5	481	250	52.0
Lafayette	3841	800	20.8	3907	557	14.3	7748	1357	17.5
Lafourche	1499	596	39.8	1530	474	31.0	3029	1070	35.3
Lincoln	645	192	29.8	668	142	21.3	1313	334	25.4
Livingston	2292	544	23.7	2324	363	15.6	4616	907	19.6
Madison	233	89	38.2	256	74	28.9	489	163	33.3
Morehouse	497	208	41.9	522	160	30.7	1019	368	36.1
Natchitoches	619	298	48.1	645	188	29.1	1264	486	38.4
Orleans	5435	3202	58.9	5507	2028	36.8	10942	5230	47.8
Ouachita	2669	786	29.4	2711	555	20.5	5380	1341	24.9
Plaquemines	471	126	26.8	495	114	23.0	966	240	24.8
Pointe Coupee	366	108	29.5	387	93	24.0	753	201	26.7
Rapides	2132	674	31.6	2228	438	19.7	4360	1112	25.5
Red River	159	60	37.7	177	29	16.4	336	89	26.5
Richland	398	190	47.7	425	126	29.6	823	316	38.4
Sabine	441	157	35.6	466	123	26.4	907	280	30.9
St. Bernard	781	369	47.2	837	224	26.8	1618	593	36.7
St. Charles	843	311	36.9	882	216	24.5	1725	527	30.6
St. Helena	111	81	73.0	123	42	34.1	234	123	52.6
St. James	361	199	55.1	383	85	22.2	744	284	38.2
St. John the Baptist	701	352	50.2	752	208	27.7	1453	560	38.5
St. Landry	1576	348	22.1	1635	275	16.8	3211	623	19.4
St. Martin	876	176	20.1	918	112	12.2	1794	288	16.1
St. Mary	864	168	19.4	921	126	13.7	1785	294	16.5
St. Tammany	3502	1276	36.4	3584	839	23.4	7086	2115	29.8
Tangipahoa	2087	458	21.9	3133	359	11.5	5220	817	15.7

Tensas	89	54	60.7	105	37	35.2	194	91	46.9
Terrebonne	1867	589	31.5	1920	372	19.4	3787	961	25.4
Union	372	220	59.1	394	141	35.8	766	361	47.1
Vermilion	1012	331	32.7	1049	259	24.7	2061	590	28.6
Vernon	1106	144	13.0	1178	133	11.3	2284	277	12.1
Washington	766	307	40.1	805	181	22.5	1571	488	31.1
Webster	605	146	24.1	667	140	21.0	1272	286	22.5
West Baton Rouge	451	106	23.5	499	88	17.6	950	194	20.4
West Carroll	181	101	55.8	205	58	28.3	386	159	41.2
West Feliciana	174	66	37.9	202	64	31.7	376	130	34.6
Winn	201	104	51.7	239	95	39.7	440	199	45.2
Statewide	**74532**	**27032**	**36.3**	**77941**	**18338**	**23.5**	**152473**	**45370**	**29.8**

2. WIC Testing: Pilot testing for lead poisoning began in Region 1 (Orleans) on Oct. 1, 2014. Testing is done on children who are initially certified and those who are recertified for WIC services. Approximately 80% of children screened were first time testers.

Table 4: Blood Lead Testing in WIC clinics from Jan. 1, 2015 through Dec. 31, 2015

Clinic Name	Total tested	1 year old	2 years old	3 years old	≥4 years old	Retest
Children's Medical Center Gretna WIC	92	81	11	0	0	0
Crescent City WIC Services	71	29	24	15	3	17
Daughters Of Charity Carrollton	347	290	34	8	15	40
Daughters Of Charity St. Cecilia	5	4	1	0	0	1
Ida Hymel WIC Clinic	0	0	0	0	0	0
Jefferson Parish Marrero Health Unit	38	31	7	0	0	2
Jefferson Parish Metairie Health Unit	25	18	7	0	0	4
New Orleans East Family Health	0	0	0	0	0	0
St. Bernard WIC Clinic	6	6	0	0	0	1
St. Charles Community Health Center	107	101	6	0	0	7
Edna Pilsbury WIC Clinic	2	2	0	0	0	0
Children's Medical Center WIC Clinic In Westwego	116	73	41	2	0	17

3. Healthy Louisiana/Medicaid Eligible Children: Another group of children at risk of lead poisoning are children on Medicaid Assistance program. Upon a memorandum of understanding between the Louisiana (LA) Lead program and LA Medicaid program, Medicaid data will be provided on annual basis to LA Lead program to be matched with children blood lead data. A detailed of report of blood lead testing of Medicaid children will be developed and disseminated statewide.

4. Case Management/Environmental Investigations: LHHCLPPP has well-established case management guidelines and environmental protocols for follow-up of children with elevated BLLs. Tables 6 and 7 reflect the number of cases that received follow-up and the number that received environmental investigations.

Table 6 – Management for Follow-Up Blood Lead Testing Chart

Jan.1, 2015 to Dec. 31, 2015	
Blood Lead Level (µg/dL)	Number of Cases Receiving Follow-up
5-9	2334
10-14	441
15-19	173
20-29	102
30-44	55
45-69	5
≥70	0
TOTAL	**3110**

Table 7- Sources of Lead Based on Environmental Investigations

	2012	2013	2014	2015	Totals
Number of Referrals	23	18	21	48	110
Number of Investigations	13	13	12	37	75
Paint	13	9	12	30	64
Soil	9	9	6	13	37
Dust	9	6	7	25	47
Other	0	1(fish sinker)	0	0	1

5. Data Quality: Since 2009, LHHCLPPP has successfully implemented and used the CDC-based Healthy Homes and Lead Poisoning Surveillance System (HHLPSS) to collect, compile and track information about blood lead tests conducted and lead hazards found among child residents of Louisiana. Through the use of HHLPSS, LHHCLPPP has expanded its surveillance system into a comprehensive, population-based system by continued collection of all blood lead tests conducted on children between the ages of 6

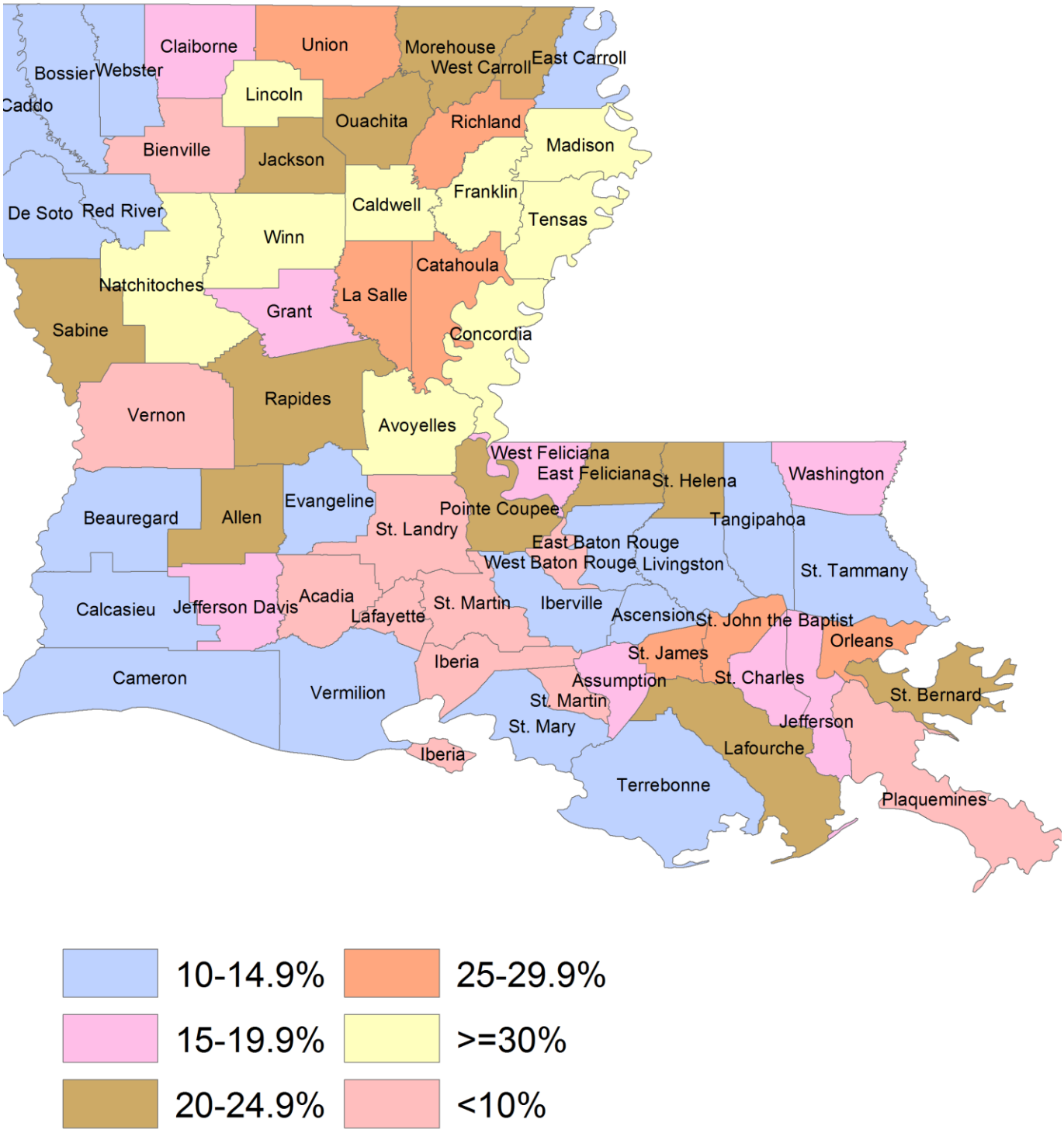
and 72 months and providing environmental investigations and recording the source of lead poisoning for children with venous BLLs ≥ 10µg/dL. The LHHCLPPP staff makes an effort to further improve data quality with respect to completeness, timeliness and accuracy.

Staff keeps track on a daily basis of laboratory reporting to make sure laboratories are reporting all blood lead tests at least biweekly. Staff also checks the completeness of data with respect to the child's and guardian's names, address, telephone number, and the child's Medicaid number.

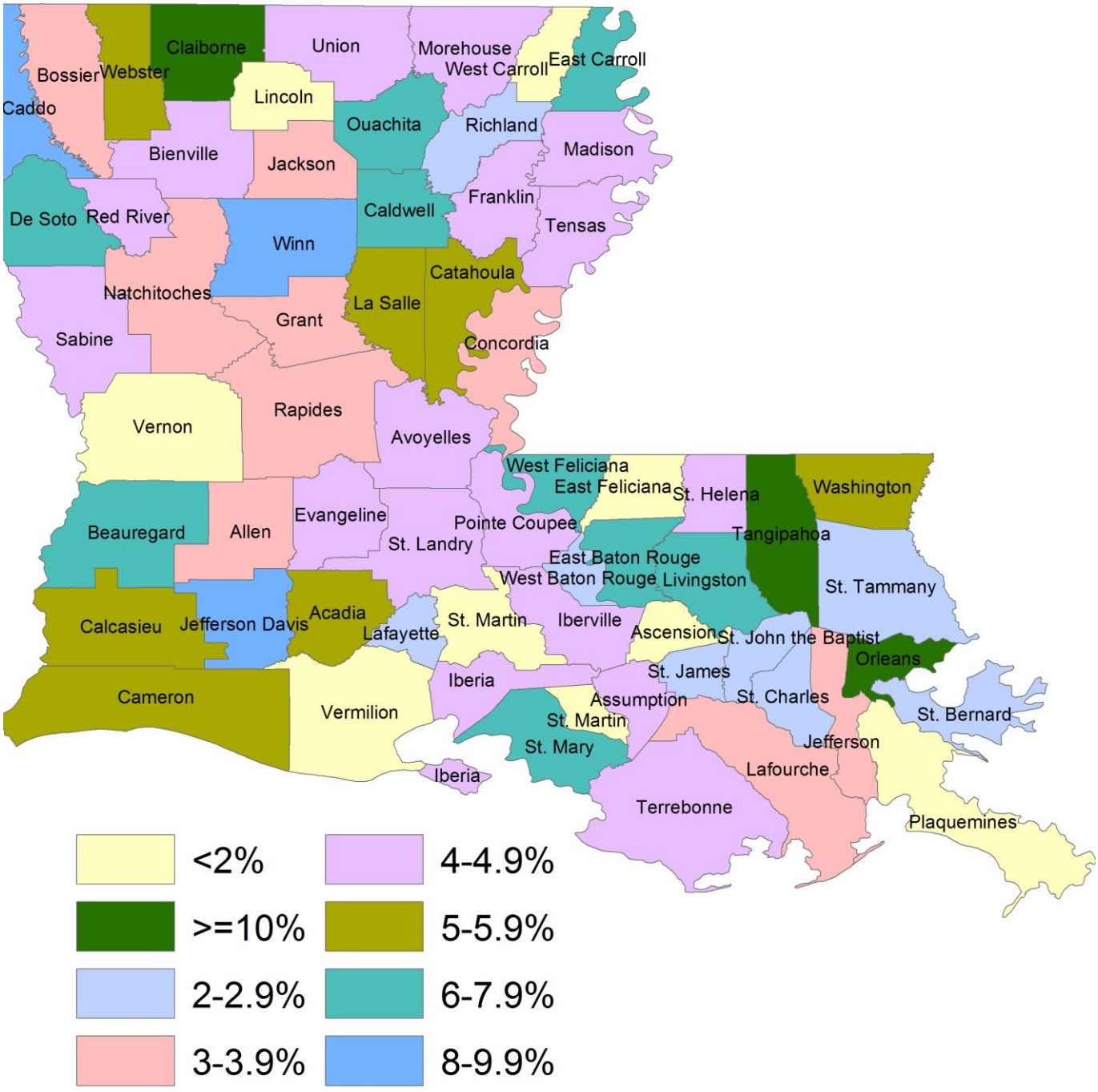
Table 8
Blood Lead Levels of Children 6-72 Months by Major Age Group and High-Risk Parishes in 2015

State Target Parishes	Population		Total tests	Percent (%) tests	BLL 5-9.9 µg /dl		BLLs ≥10 µg /dl	
					Number	Percent (%)	Number	Percent (%)
Louisiana	Under 3 years old	152473	45370	29.8	1602	3.5	618	1.4
	3 years and older	226512	24149	10.7	980	4.1	305	1.3
Acadia	Under 3 years old	2352	394	16.8	11	2.8	11	2.8
	3 years and older	3591	133	3.7	7	5.3	0	0.0
Beauregard	Under 3 years old	1176	267	22.7	11	4.1	4	1.5
	3 years and older	1765	114	6.5	2	1.8	1	0.9
Caddo	Under 3 years old	8687	1725	19.9	81	4.7	35	2.0
	3 years and older	13021	1273	9.8	71	5.6	53	4.2
Caldwell	Under 3 years old	253	149	58.9	5	3.4	1	0.7
	3 years and older	378	58	15.3	8	13.8	0	0.0
Catahoula	Under 3 years old	290	156	53.8	3	1.9	1	0.6
	3 years and older	429	29	6.8	3	10.3	4	13.8
Claiborne	Under 3 years old	407	156	38.3	12	7.7	4	2.6
	3 years and older	617	37	6.0	7	18.9	2	5.4
De Soto	Under 3 years old	985	239	24.3	11	4.6	6	2.5
	3 years and older	1478	103	7.0	4	3.9	2	1.9
East Carroll	Under 3 years old	291	56	19.2	1	1.8	2	3.6
	3 years and older	437	21	4.8	2	9.5	0	0.0
Iberville	Under 3 years old	1039	93	9.0	4	4.3	4	4.3
	3 years and older	1555	207	13.3	1	0.5	5	2.4
Jefferson Davis	Under 3 years old	1091	341	31.3	19	5.6	15	4.4
	3 years and older	1638	139	8.5	7	5.0	0	0.0
Lafourche	Under 3 years old	3029	1070	35.3	25	2.3	17	1.6
	3 years and older	4520	747	16.5	7	0.9	20	2.7
Livingston	Under 3 years old	4616	907	19.6	34	3.7	23	2.5
	3 years and older	6935	298	4.3	11	3.7	6	2.0
Natchitoches	Under 3 years old	1264	486	38.4	11	2.3	10	2.1
	3 years and older	1894	573	30.3	4	0.7	10	1.7
Orleans	Under 3 years old	10942	5230	47.8	389	7.4	129	2.5
	3 years and older	16434	1733	10.5	213	12.3	46	2.7
Pointe Coupee	Under 3 years old	753	201	26.7	6	3.0	6	3.0
	3 years and older	1127	192	17.0	4	2.1	2	1.0
St Mary	Under 3 years old	1785	294	16.5	12	4.1	3	1.0
	3 years and older	2677	242	9.0	15	6.2	5	2.1
Tangipahoa	Under 3 years old	5220	817	15.7	90	11.0	11	1.3
	3 years and older	5327	386	7.2	31	8.0	10	2.6
Tensas	Under 3 years old	194	91	46.9	3	3.3	2	2.2
	3 years and older	291	106	36.4	3	2.8	1	0.9
Webster	Under 3 years old	1272	286	22.5	7	2.4	5	1.7
	3 years and older	1906	78	4.1	5	6.4	2	2.6
Winn	Under 3 years old	440	199	45.2	20	10.1	4	2.0
	3 years and older	662	196	29.6	9	4.6	2	1.0

Percent of Children Screening for Blood Lead Levels by Parish – 2015 Data



Percent of Children with Blood Lead Levels ≥5µg /dl by Parish – 2015 Data



Percent of Children with Blood Lead levels ≥10 µg /dl by Parish – 2015 Data